

Fig. 1A

1 GTCGACCCAC GCGTCGAGA AGAAAAACCT AGATTCTCC GTCTCTCTAA TTTCCTTTCT
 61 CTCTCAAGCT TCTCAJAAAG TCTGACACTT TCGAGAATCT AATCTCACA TTTCTTGTCT
 121 TTTTGGAGAA GGAATCGAAT T ATG TAC AAG GAA CGT AGT GGA GGA GGT GGT GGT GGG TCA
 Met Tyr Lys Glu Arg Ser Gly Gly Gly Gly Gly Gly Ser 13
 181 TCG AGA TCA GAG ATC CTC GGT GGA GCT ATT GAT CGG AAA CGA ATC AAC GAT GCA CTC AAT
 Ser Arg Ser Glu Ile Leu Gly Gly Ala Ile Asp Arg Lys Arg Ile Asn Asp Ala Leu Asn 33
 241 AAG AAA CTA GAG AAA TCT TCA ACT TCC ACC ACC ACA TCT AGG GTT TTC TCT TCT AAA GAC
 Lys Lys Leu Glu Lys Ser Ser Thr Ser Thr Thr Thr Ser Arg Val Phe Ser Ser Lys Asp 53
 301 AAA GAT CCC TTT TCC TTC ACA TCT ACT AAA ACT CAG CTT CCT GAT GTG GAA TCG GAA ACT
 Lys Asp Pro Phe Ser Phe Thr Ser Thr Lys Thr Gln Leu Pro Asp Val Glu Ser Glu Thr 73
 361 GAT AGT GAA GGG TTT GAT GTG AAT GGA TCG GAG GGT GAT GAT ACG TCG TGG ATC TCT TGG
 Asp Ser Glu Gly Ser Asp Val Ser Gly Ser Glu Gly Asp Asp Thr Ser Trp Ile Ser Trp 93
 421 TTT TGT AAT TTG AJA GGG AAT GAT TTC TTC TGT GAA GTT GAT GAA GAT TAT ATT CAA GAT
 Phe Cys Asn Leu Arg Gly Asn Asp Phe Phe Cys Glu Val Asp Glu Asp Tyr Ile Gln Asp 113
 481 GAT TTC AAT CTT TGT GGT TTA AGT GGT CAA GTC CCT TAC TAT GAT TAT GCA CTT GAT CTC
 Asp Phe Asn Leu Cys Gly Leu Ser Gly Gln Val Pro Tyr Tyr Asp Tyr Ala Leu Asp Leu 133
 541 ATT TTA GAT GTT SAT GCT TCC AAC AGT GAG ATG TTT ACT GAT GAA CAG CAT GAA ATG GTG
 Ile Leu Asp Val Asp Ala Ser Asn Ser Glu Met Phe Thr Asp Glu Gln His Glu Met Val 153
 601 GAA TCA GCT GCT GAG ATG CTA TAT GGT CTT ATT CAT GTT CGT TAC ATT TTG ACT ACT AAA
 Glu Ser Ala Ala Glu Met Leu Tyr Gly Leu Ile His Val Arg Tyr Ile Leu Thr Thr Lys 173
 661 GGA ATG GCT GCA ATG ACT GAG AAG TAC AAG AAC TGT GAT TTC GGG AGA TGC CCG AGA GTT
 Gly Met Ala Ala Met Thr Glu Lys Tyr Lys Asn Cys Asp Phe Gly Arg Cys Pro Arg Val 193
 721 TTC TGT TGC GGT CAG TCT TGT CTT CCA GTT GGA CAA TCC GAT ATC CCG ABA TCG AAT ACT
 Phe Cys Cys Gly Gln Ser Cys Leu Pro Val Gly Gln Ser Asp Ile Pro Arg Ser Ser Thr 213
 781 GTG AAG ATA TAC TGC CCT AAA TGC GAG GAT ATA TCT TAC CCG CGA TCT AAA TTC CAA GGC
 Val Lys Ile Tyr Cys Pro Lys Cys Glu Asp Ile Ser Tyr Pro Arg Ser Lys Phe Gln Gly 233
 841 AAT ATT GAT GGA GCG TAC TTT GGA ACC ACA TTC CCT CAC TTG TTC TTG ATG ACT TAC GGG
 Asn Ile Asp Gly Ala Tyr Phe Gly Thr Thr Phe Pro His Leu Phe Leu Met Thr Tyr Gly 253
 901 AAC TTA AAG CCG CAG AAG CCT ACT CAA AGC TAT GTC CCA AAA ATC TTT GGC TTC AAG GTA
 Asn Leu Lys Pro Gln Lys Pro Thr Gln Ser Tyr Val Pro Lys Ile Phe Gly Phe Lys Val 273
 960 CAC AAA CCA TGATACTAGT GCTTGTGATT CTCAATGGTG ATACATTTAG TGGCTCTGTA
 His Lys Pro 276
 1020 ATTGCATCCG GATGAGCAAC TGAAACGATA GCTGCGGTGA CTGAGCATA CATCAACCAT T

CKB1	MYRDR...GTVNSRPEV...VDRKRIND.....ALER.....PS	28
CKB3	MYKERSGGGGGSSRSEILGGAIDRKRIND.....ALNKKLEKSSTS	42
CKB2	MYRER...GMVGSKSEV...VDRKRINEIHDNRPSHMSQPVNGKGV	42
CKB1	PSTSRQVNGK...GKGTVTAAT.TTANLIGKQSSNNINHRDSRSASLSKN	74
CKB3	TTTSRVFSSK...DKDPFSFTS.TKTQL.....	66
CKB2	TSTSVLMGKQQLHDKESSRSGSISKTNI.....	70
CKB1	NTVSDD...ESDTESESDVSGSDGEDTSWISWFCNLRGNEFFCEVDDDDYI	122
CKB3	...PDV...ESETDSESDVSGSEGDDTSWISWFCNLRGNDFFCEVDEDDYI	111
CKB2	...SDAVDISDTESESEVSGSDGEDTSWISWFCNLRGNEFFCEVDDDDYI	117
CKB1	QDDFNLCGLSSLVPYYEYALDLILDVESSQGEMFTTEEQNELIESAAEMLY	172
CKB3	QDDFNLCGLSGQVPYYDYALDLILDVDASNSEMTDEQHEMVESAAEMLY	161
CKB2	QDDFNLCGLSHQVPYYDYALDLILDVESSHGEMFTTEEQNELIESAAEMLY	167
CKB1	GLIHARYILTSKGLAAMLDKYKNYDFGRCPRVYCCGQPCLPVGQSDLPRS	222
CKB3	GLIHVRYILTTKGMAAMTEKYKNCDFGRCPRVFCCGQSCLPVGQSDIPRS	211
CKB2	GMIHARFILTSKGLASMLDKYKNYDFGRCPRVYCCGQPCLPVGQSDIPRA	217
CKB1	STVKIYCPKCEDIYYPRSKYQGNIDGAYFGTTFFPHLFLMTYGHLPKAKAT	272
CKB3	STVKIYCPKCEDIYPRSKFQGNIDGAYFGTTFFPHLFLMTYGNLKPQKPT	261
CKB2	STVKIYCPKCEDVYYPRSKYQGNIDGAYFGTTFFPHLFLMTYGHLPQKAS	267
CKB1	QNYVQRVFGFKLHKP	287
CKB3	QSYVPKIFGFKVHKP	276
CKB2	QSYTQRVFGFKLHKP	282

Fig. 1B

Fig. 2

SEQ. I.D. No. 1

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GTGGACCCAC GCGTCCGAGA AGAAAACCCT AGATTTCTCC GTCTCTCTAA TTTCCTTTCT 60
CTCTCAAGCT TCTCAGAAAG TCTGACACTT TCGAGAATCT AATCTCCAAA TTTCTTGTCT 120
TTTTGGAGAA GGAATCGAAT TATGTACAAG GAACGTAGTG GAGGAGGTGG TGGTGGGTCA 180
TCGAGATCAG AGATCCTCGG TCGAGCTATT GATCGGAAAC GAATCAACCA TGCACACAAT 240
AAGAAACTAG AAGAAATCTTC AACTTCACAC ACCACATCTA GGGTTTTCTC TTCTAAAGAC 300
AAAGATCCCT TTTCCTTCAC ATCTACTAAA ACTCAGCTTC CTGATGTGGA ATCGGAAACT 360
GATAJTGAAAG GGTCTGATGT GAGTGGATCG GAGGGTGATG ATACGTCGTG GATCTCTTGG 420
TTTTGTAAAT TGAGAGGGAA TGATTTCTTC TGTGAAGTCG ATGAAGATTA TATTCAAGAT 480
GATTTCAATC TTTGTGGTTT AAGTGGTCAA GTCCCTTACT ATGATTATGC ACTTGATCTC 540
ATTTTAGATG TGGATGCTTC CAACAGTGAG ATGTTTACTG ATGAACAGCA TGAAATGGTG 600
GAATCAGCTG CTGAGATGCT ATATGCTCTT ATTCATGTTT GTTACATTTT GACTACTAAA 660
GGAATGGCTG CAATGACTGA GAAGTACAAG AACTGTGATT TCGGGAGATG CCGGAGAGTT 720
TTCTGTTGCG GTCAGTCTTG TCTTCAGTT GGACAATCCG ATATCCCGAG ATCGAGTACT 780
GTGAAGATAT ACTGCCCTAA ATGCGAGGAT ATATCTTACC CGCGATCTAA ATTCCAAGGC 841
AATATTGATG GAGCGTACTT TGGAACCACA TTCCCTCACT TGTTCCTTGAT GACTTACGGG 900
AACTTAAAGC CGCAGAAGCC TACTCAAAGC TATGTCCCAA AAATCTTTGG CTTCAAGGTA 961
CACAAACCAT GATACTAGTG CTCTGCATTC TCAATGGTGA TACATTTAGT GGCTCTGTAA 1020
TTGCATCCCG ATGAGCAACT GAAACGATAG CTGCGGTGAC TGGAGCATAA ATCAACCATT 1080
```

Fig. 3

SEQ. I.D. No. 2

Met Tyr Lys Glu Arg Ser Gly Gly Gly Gly Gly Gly Ser Ser Arg Ser Glu Ile Leu Gly	20
Gly Ala Ile Asp Arg Lys Arg Ile Asn Asp Ala Leu Asn Lys Lys Leu Glu Lys Ser Ser	40
Thr Ser Thr Thr Thr Ser Arg Val Phe Ser Ser Lys Asp Lys Asp Pro Phe Ser Phe Thr	60
Ser Thr Lys Thr Gln Leu Pro Asp Val Glu Ser Glu Thr Asp Ser Glu Gly Ser Asp Val	80
Ser Gly Ser Glu Gly Asp Asp Thr Ser Trp Ile Ser Trp Phe Cys Asn Leu Arg Gly Asn	100
Asp Phe Phe Cys Glu Val Asp Glu Asp Tyr Ile Gln Asp Asp Phe Asn Leu Cys Gly Leu	120
Ser Gly Gln Val Pro Tyr Tyr Asp Tyr Ala Leu Asp Leu Ile Leu Asp Val Asp Ala Ser	140
Asn Ser Glu Met Phe Thr Asp Glu Gln His Glu Met Val Glu Ser Ala Ala Glu Met Leu	160
Tyr Gly Leu Ile His Val Arg Tyr Ile Leu Thr Thr Lys Gly Met Ala Ala Met Thr Glu	180
Lys Tyr Lys Asn Cys Asp Phe Gly Arg Cys Pro Arg Val Phe Cys Cys Gly Gln Ser Cys	200
Leu Pro Val Gly Gln Ser Asp Ile Pro Arg Ser Ser Thr Val Lys Ile Tyr Cys Pro Lys	220
Cys Glu Asp Ile Ser Tyr Pro Arg Ser Lys Phe Gln Gly Asn Ile Asp Gly Ala Tyr Phe	240
Gly Thr Thr Phe Pro His Leu Phe Leu Met Thr Tyr Gly Asn Leu Lys Pro Gln Lys Pro	260
Thr Gln Ser Tyr Val Pro Lys Ile Phe Gly Phe Lys Val His Lys Pro	270

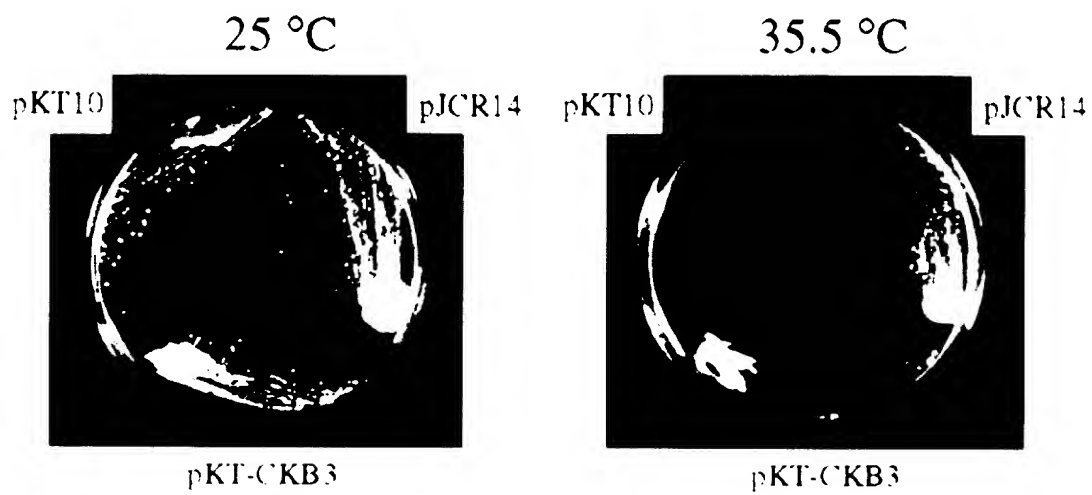


Fig. 4

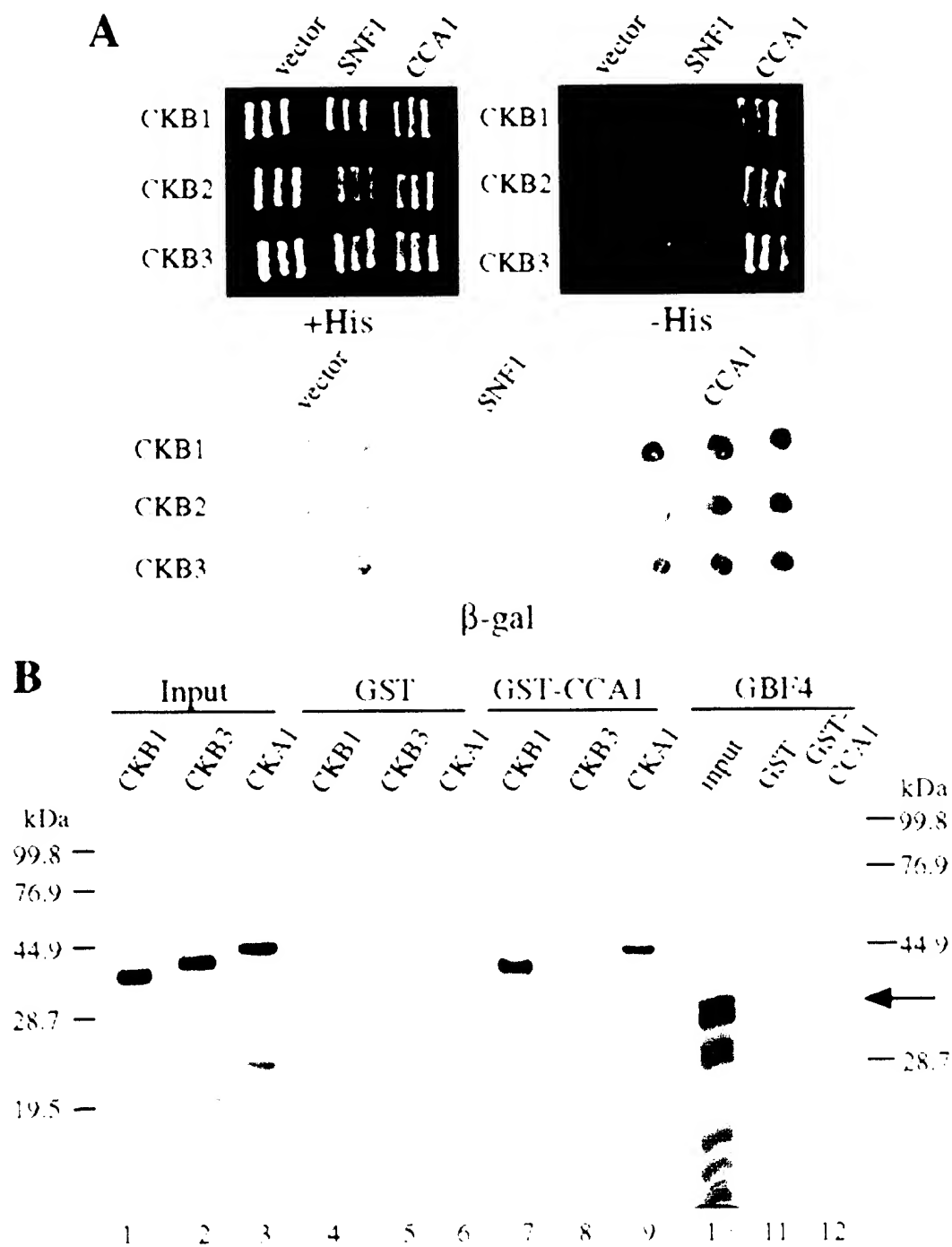


Fig. 5

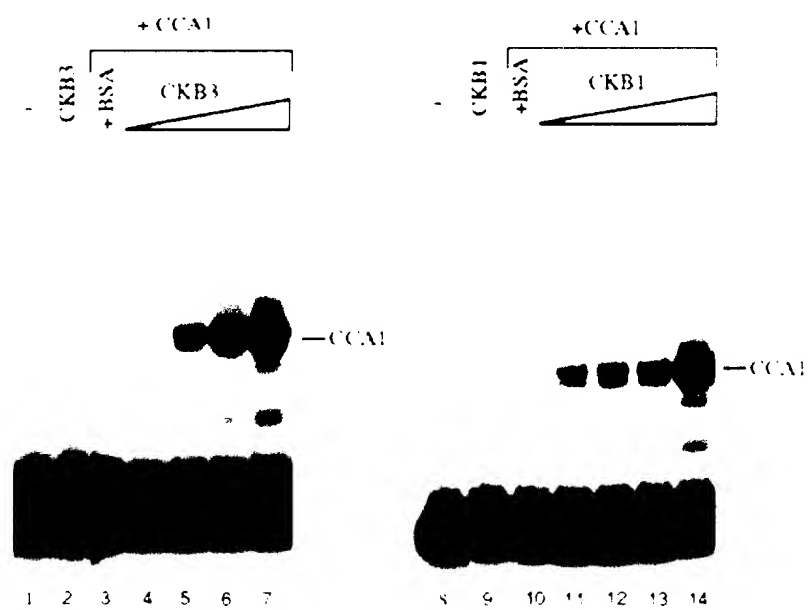


Fig. 6

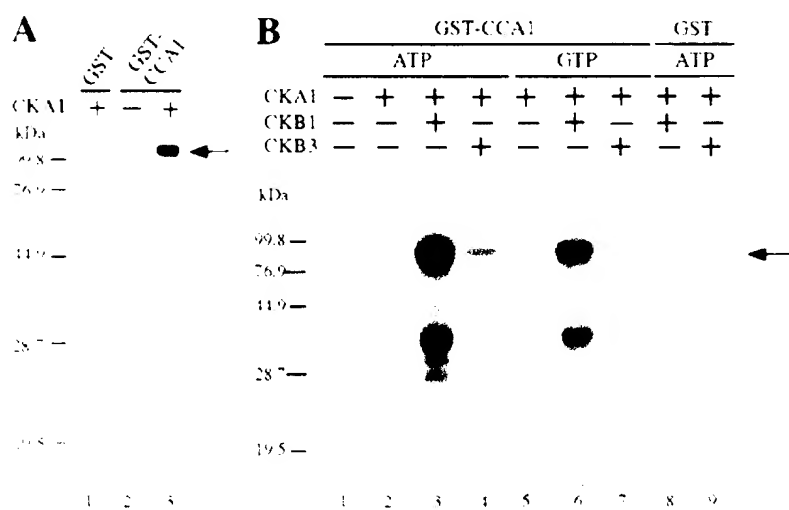


Fig. 7

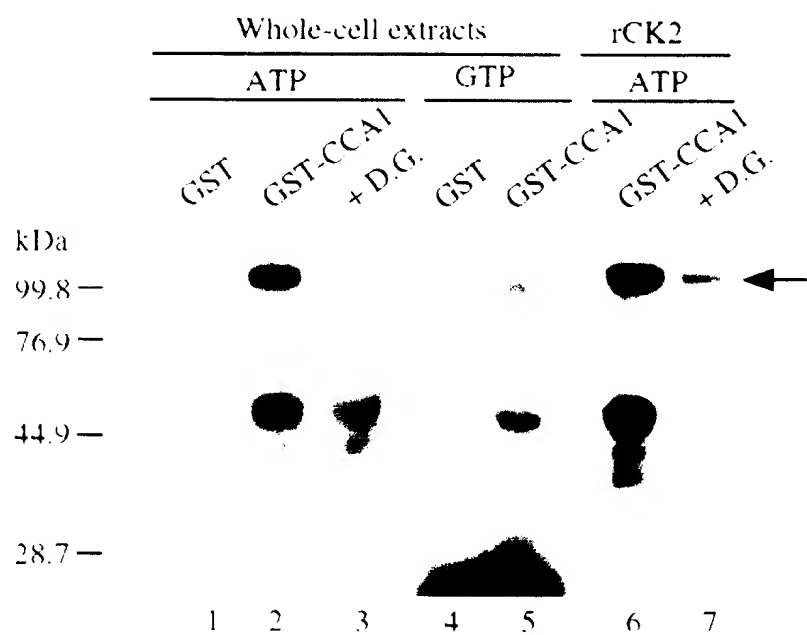


Fig. 8

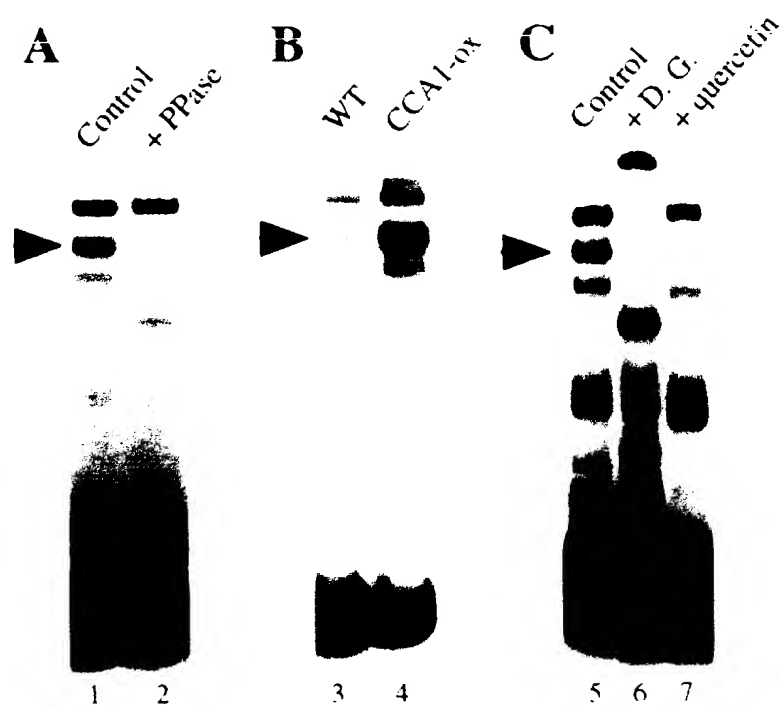


Fig. 9

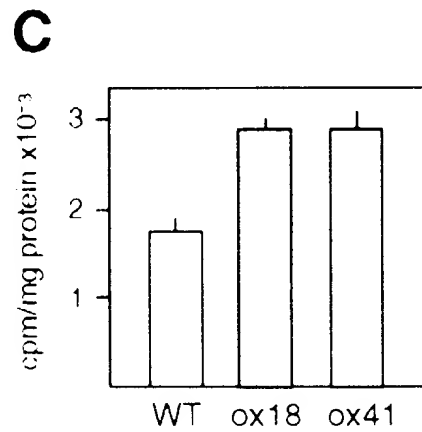
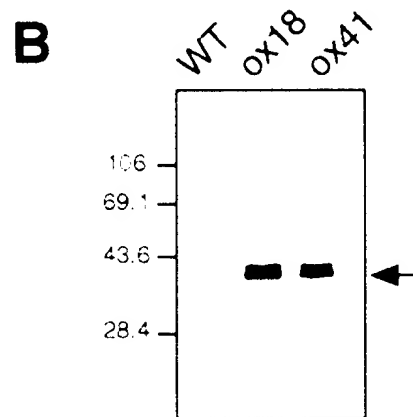
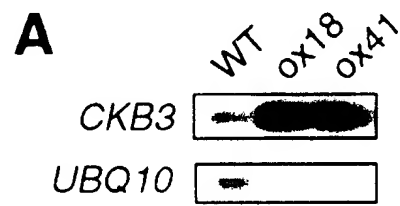


Fig. 10

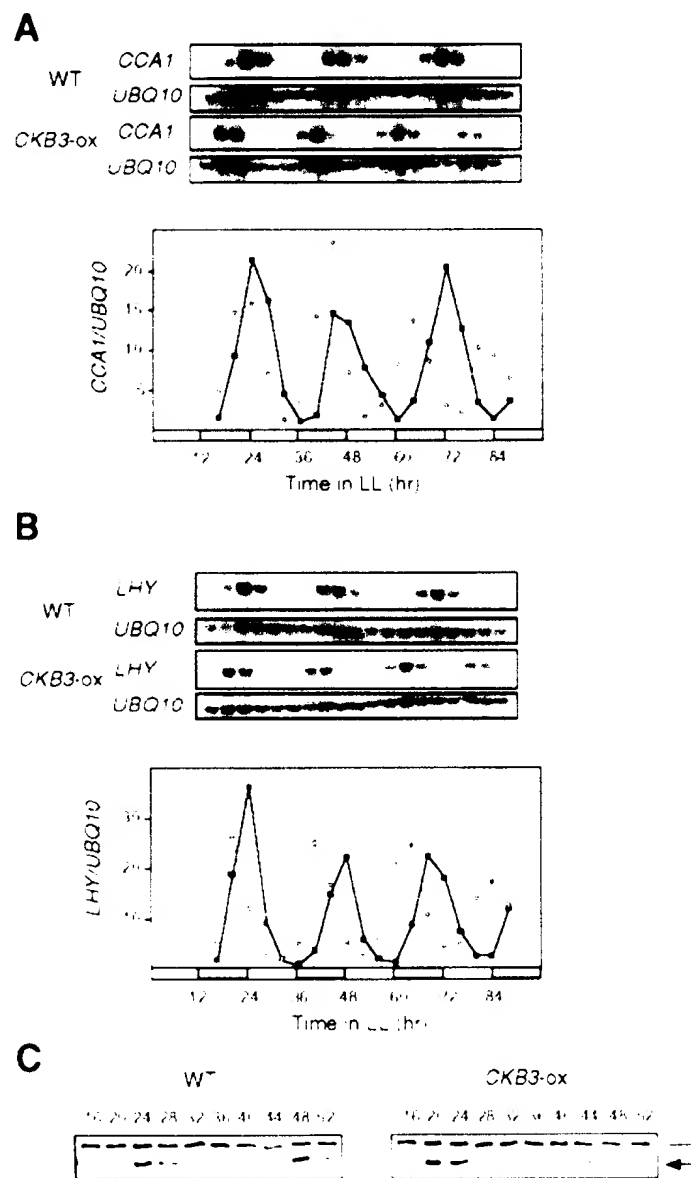


Fig. 11

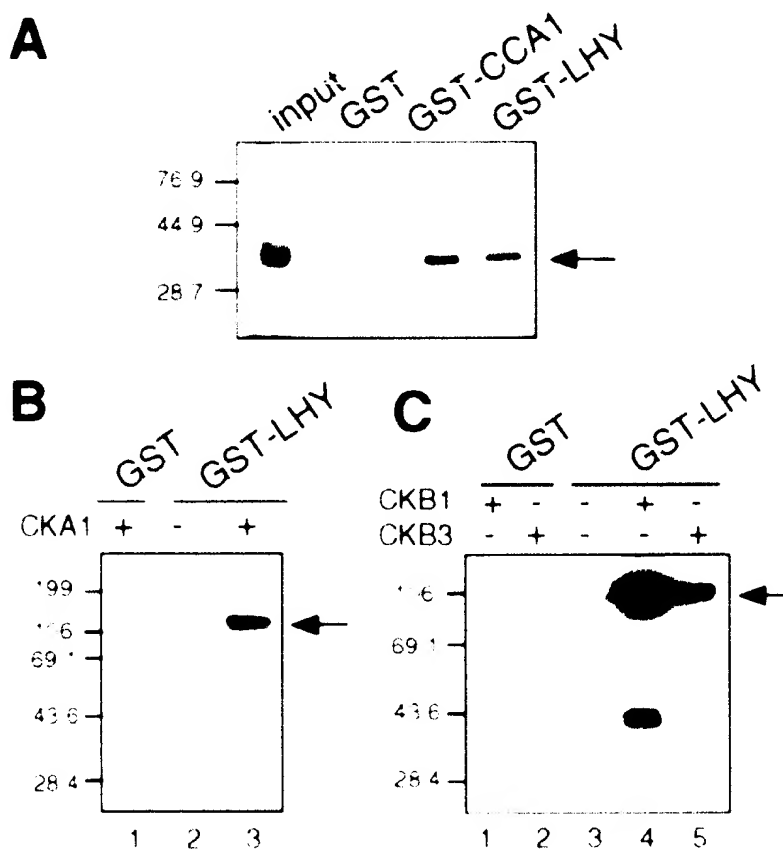
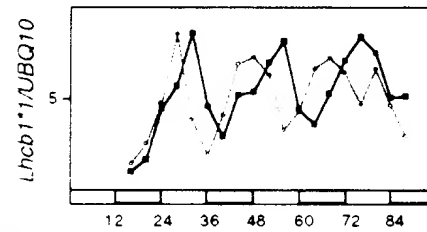
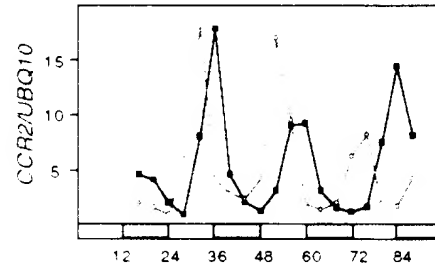


Fig. 12

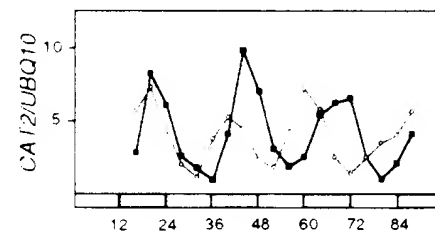
A



B



C



D

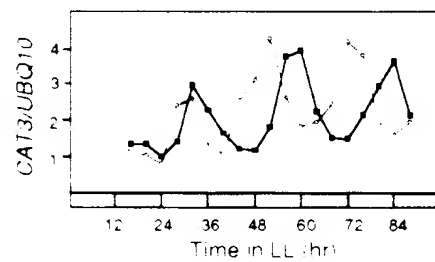


Fig. 13